



## FORESTRY, FIRE & STATE LANDS REQUEST FOR PROPOSALS Cover Sheet



<b>Project Title</b>	Development of a High-Resolution Melting Curve Method to Study the <i>Artemia</i> Population of Great Salt Lake.		
<b>Lead Project Sponsor</b>	Brian Avery Ph.D., Great Salt Lake Institute, Westminster College		
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<b>Project Description / Abstract</b>	<p>The brine shrimp, <i>Artemia</i>, is an important part of the Great Salt Lake (GSL) ecosystem and the Utah economy. The goal of this project is to better understand the GSL <i>Artemia</i> population at the molecular genetic level. We aim to accomplish this by developing and testing high-resolution DNA melting (HRM) methods to distinguish genetically different forms of <i>Artemia</i> within the GSL population as well as a population specific HRM assay that can distinguish GSL <i>Artemia</i> from individuals from different populations. These methods will provide a valuable research tool to further our understanding of <i>Artemia</i> genetics and to monitor changes in the population in response to changing environmental conditions.</p>		
<b>Project Funding</b>	Amount Requested	Matching Funds	Total Project Cost
	\$17,250	\$75,650	\$92,900